

Listing of Claims:

- Claim 1. (original) Frequency shifted feedback emission source,
characterized by the fact that a means is used to increase emission frequency component
beat intensity.
- Claim 2. (currently amended) Frequency shifted feedback emission source according to
claim 1~~the preceding claim~~,
characterized by the fact that the means to increase emission frequency component beat
intensity is configured as means for non-stochastic emission frequency component beat
intensity increasing.
- Claim 3. (currently amended) Frequency shifted feedback emission source according to
claim 2~~the preceding claim~~,
characterized by the fact that the means to increase emission frequency component beat
intensity includes an injection light source.
- Claim 4. (currently amended) Frequency shifted feedback emission source according to
claim 3~~the preceding claim~~,
characterized by the fact that the injection light source includes and injection laser.
- Claim 5. (currently amended) Frequency shifted feedback emission source according to
claim 3~~one of the claims 3 or 4~~,
characterized by the fact that the injection light source is configured to inject irradiation
into the resonator of the frequency shifted feedback emission source, specifically for
irradiation into the amplification medium.
- Claim 6. (currently amended) Frequency shifted feedback emission source according to
claim 3~~one of the claims 3 through 5~~,
characterized by the fact that the injection light source is configured for emission of
irradiation of an irradiation frequency close the upper or lower amplification threshold
(G-1).

Claim 7. (currently amended) Frequency shifted feedback emission source according to claim 3~~one of the claims 3 through 6~~, characterized by the fact that the injection light source for the irradiation of injection light is narrowband in reference to the amplification bandwidth of the frequency shifted feedback emission source, specifically a width below 5%, preferably below 1% of the bandwidth of the amplification of the frequency shifted feedback emission source.

Claim 8. (currently amended) Frequency shifted feedback emission source according to claim 3~~one of the claims 3 through 7~~, characterized by the fact that the injection light source is configured for irradiation of the appropriate intensity and/or phase of the optical carrier.

Claim 9. (currently amended) Frequency shifted feedback emission source according to claim 8~~the preceding claim~~, characterized by the fact that the injection light source is configured for regular modulation of intensity and/or phase of the injection light.

Claim 10. (currently amended) Frequency shifted feedback emission source according to claim 9~~the preceding claim~~, characterized by the fact that the injection light source is configured to perform a periodic modulation of intensity and/or phase that changes with time.

Claim 11. (currently amended) Frequency shifted feedback emission source according to claim 9~~one of the claims 9 or 10~~, characterized by the fact that the injection light source is configured so at least temporally one linear modulation frequency variation takes place.

Claim 12. (currently amended) Frequency shifted feedback emission source according to claim 8~~one of the claims 8 or 11~~, characterized by the fact that the injection light source is configured so that a modulation lies in the magnitude order and/or close to the distances determined using the emission source and the given chirp rate from the frequency shifted feedback emission source is obtained.

Claim 13. (currently amended) Frequency shifted feedback emission source according to claim 1~~one of the preceding claims~~, characterized by the fact that the frequency shifted feedback emission light source is a laser.

Claim 14. (currently amended) Frequency shifted feedback emission source according to claim 1~~one of the preceding claims~~, characterized by the fact that an optic fiber is used internally in the resonator.

Claim 15. (currently amended) Distance measurement configuration with an emission light source according to claim 1~~one of the preceding claims~~.

Claim 16. (currently amended) Distance measurement configuration according to claim 15~~the preceding claim~~, characterized by the fact that irradiation optics are used to broadly illuminate a surface to be investigated with light from the emission source and a means is used to obtain a beat spectrum containing height profile information.

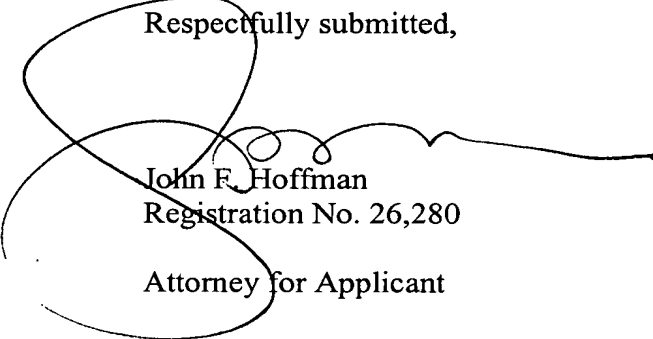
Claim 17. (currently amended) Distance measurement configuration according to claim 1~~one of the preceding distance measurement claims~~, characterized by the fact that an optic is used to direct irradiation from the emission light source to a defined partial range of the object.

Claim 18. (original) Process for operating a frequency shifted feedback emission light source, characterized by the fact that the beat intensity of the frequency components of the emitted irradiation are increased beyond what is achieved in a stationary condition through spontaneous emission.

Claim 19. (new) Frequency shifted feedback emission source according to claim 4, characterized by the fact that the injection light source is configured to inject irradiation into the resonator of the frequency shifted feedback emission source, specifically for irradiation into the amplification medium.

Claim 20. (new) Frequency shifted feedback emission source according to claim 4, characterized by the fact that the injection light source is configured for emission of irradiation of an irradiation frequency close the upper or lower amplification threshold (G-1).

Respectfully submitted,



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